ARTIFICIAL INTELLIGENCE										
1	Course Title:	ARTIFIC	IAL INTELLIGENCE							
2	Course Code:	END6122								
3	Type of Course:	Optional								
4	Level of Course:	Third Cy	cle							
5	Year of Study:	1								
6	Semester:	2								
7	ECTS Credits Allocated:	7.50								
8	Theoretical (hour/week):	3.00								
9	Practice (hour/week):	0.00								
10	Laboratory (hour/week):	0								
11	Prerequisites:	None								
12	Language:	Turkish								
13	Mode of Delivery:	Face to f	face							
14	Course Coordinator:	Prof. Dr. NURSEL ÖZTÜRK								
15	Course Lecturers:									
16	Contact information of the Course Coordinator:	nursel@uludag.edu.tr +90 224 2942083 Bursa Uludağ Üniversitesi Endüstri Mühendisliği Bölümü								
17	Website:									
18	Objective of the Course:	The objective of this course is to provide students the knowledge of Artificial Intelligence and related topics with applications.								
19	Contribution of the Course to Professional Development:	The contribution of the course to the professional development is to introduce the knowledge and applications about artificial intelligence, and to provide ability to apply the learned artificial intelligence techniques.								
20	Learning Outcomes:	3								
		1	Will be able to understand knowledge of the artificial intelligence and related topics							
		2	Will be able to design an intelligent system with using expert system, fuzzy logic, neural network, etc.							
		3	Will be able to present an artificial intelligence project							
		4								
		5								
		6								
		7								
		8								
		9								
		10								
21	Course Content:									
	Course Content:									
Week	Theoretical		Practice							
1	Fundamental principles of artificial intelligence, Expert system, General of expert system	structure								

2	Knowledge representation technique Search techniques, Inference, Forwa								
	chaining, Backward chaining								
3	Design of expert systems, Probability and expert systems, Appli examples	ication							
4	Fuzzy sets, Properties of fuzzy sets, set operations	Fuzzy							
5	Fuzzy relations, Membership function Fuzzification	ns,							
	Fuzzy inference techniques, Defuzzif techniques	ication							
7	Natural language, Fuzzy systems		Т						
8	Fuzzy systems, Application examples	3							
9	Artificial neural networks								
10	Artificial neural networks								
11	Artificial neural networks, Application examples								
12	Deep learning								
13	Deep learning								
Activit	es			Number	Duration (hour)	Total Work Load (hour)			
Theore	iviateriais. lical		114	Ananverui, Ozman Si ygulaması, Atlas Yay.	леппет, ън тарау . 3.00	42.00			
	ı als/Labs			0	0.00	0.00			
Self stu	dy and preperation		Š	₩. Sivanandam, S. S	ingangi. S. N. Deep	1.49 Polyction			
Homew	vorks			3	5.00	15.00			
Project	5		W	iley, 2010.	25.00				
Field St	tudies			0	0.00				
Midtern	n exams		Neural Networks and Arthiolal Intelligence, Opess, 2017.						
Others				0	0.00				
Final E	kams		20	021.	3.00	3.00			
Total W	/ork Load					225.00			
Total w	ork load/ 30 hr					7.50			
	Credit of the Course					7.50			
	EARNING ACTIVITIES	NUMBE R	WEIGHT						
Midtern	n Exam	0	0.00						
Quiz		0	0.00						
Home v	vork-project	4	40.00						
Final E	xam	1	60.00						
Total		5	100.00						
	ution of Term (Year) Learning Activities s Grade	es to	40.00						
Contrib	ution of Final Exam to Success Grade)	60.00						
Total			100.00						

Measurem Course	ent ar	nd Eva	aluatio	n Tec	hnique	s Use	d in th	ne Ho	mewo	rk, Pro	oject, Fi	nal Exa	m			
24 E0	CTS/	WO	RK L	OAD	TAB	LE										
25		CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS														
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	0	0	5	0	0	0	0	0	5	0	0	5	0	0	0	0
ÖK2	0	0	5	4	5	0	0	0	5	0	0	5	0	0	0	0
ÖK3	0	0	0	0	0	5	5	5	0	0	4	5	0	0	0	0
			LO: L	earr	ning (Objec	tive	s F	Q: P	rogra	am Qu	alifica	ations	5	•	•
Contrib ution Level:	1 very low 2 low			2 low		3 Medium			4 High			5 Very High				